RF Test Report

For

Applicant name:	**Shenzhen Linklike Technology Co., Ltd.**
Address:	C707, Building C, Zhantao Technology Tower, Intersection of Minzhi Avenue and Industrial East Road,Xinniu Community, Minzhi Street, Longhua District, Shenzhen, China
EUT name:	LINKLIKE C-Flow
Brand name:	LINKLIKE
Model number:	LNOW3A
Series model number:	N/A

Issued By

Company name:	**BTF Testing Lab (Shenzhen) Co., Ltd.**
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Report number:	BTF260414R00802
Test standards:	Article 2-1, Item 19 MIC Notice No.88 Appendix No. 43
Test conclusion:	Pass
Date of sample receipt:	2026-04-20
Test date:	2026-04-20 to 2026-04-27
Date of issue:	2026-05-12
Test by:	Sean.He Sean.He / Tester
Prepared by:	Chris Liu Chris.Liu / Project engineer
Approved by:	Ryan CJ Ryan CJ / EMC Manager

Note: All the test results in this report only related to the testing samples. Which can be duplicated completely for the legal use with approval of applicant; it shall not be reproduced except in full without the written approval of BTF Testing Lab (Shenzhen) Co., Ltd., All the objections should be raised within thirty days from the date of issue. To validate the report, you can contact us.

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Revision History		
Version	Issue Date	Revisions Content
R_V0	2026-05-12	Original

Note:
Once the revision has been made, then previous versions reports are invalid.

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1 Introduction

1.1 Laboratory Location

Test location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Phone number:	+86-0755-23146130
Fax number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Test Location:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Description:	All measurement facilities used to collect the measurement data are located at F101,201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China

1.3 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **FCC - Designation No.: CN1409**
  BTF Testing Lab (Shenzhen) Co., Ltd. has been accredited as a testing laboratory by FCC (Federal Communications Commission). The test firm Registration No. is 695374.
- **CNAS - Registration No.: CNAS L17568**
  BTF Testing Lab (Shenzhen) Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L17568.
- **A2LA - Registration No.: 6660.01**
  BTF Testing Lab (Shenzhen) Co., Ltd. is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.
- **ISED – CAB identifier.: CN0135**
  The 3m Semi-anechoic chamber of BTF Testing Lab (Shenzhen) Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 27844.
- **VCCI - Registration No.: C-20122, G-20157, R-20166**
  EMC LAB: Certificated by VCCI, Japan
  Registration No.: C-20122, G-20157, R-20166
  Date of Registration: June 20, 2025
  This Certificate is valid until June 19, 2028

1.4 Announcement

(1) The test report reference to the report template version v0.
(2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
(3) The test report is invalid if there is any evidence and/or falsification.
(4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
(5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
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(7) All entrusted information in this report is provided by the client and has been confirmed through consultation with the client; The testing items for this report have been discussed and confirmed with the client, and our company is only responsible for the content reflected in the report.

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2 Product Information

2.1 Application Information

Company name:	Shenzhen Linklike Technology Co., Ltd.
Address:	C707, Building C, Zhantao Technology Tower, Intersection of Minzhi Avenue and Industrial East Road,Xinniu Community, Minzhi Street, Longhua District, Shenzhen, China

2.2 Manufacturer Information

Company name:	Shenzhen Linklike Technology Co., Ltd.
Address:	C707, Building C, Zhantao Technology Tower, Intersection of Minzhi Avenue and Industrial East Road,Xinniu Community, Minzhi Street, Longhua District, Shenzhen, China

2.3 Factory Information

Company name:	Shenzhen Linklike Technology Co., Ltd.
Address:	C707, Building C, Zhantao Technology Tower, Intersection of Minzhi Avenue and Industrial East Road,Xinniu Community, Minzhi Street, Longhua District, Shenzhen, China

2.4 General Description of Equipment under Test (EUT)

EUT name:	LINKLIKE C-Flow
Under test model name:	LNOW3A
Series model name:	N/A
Description of model name differentiation:	N/A
Hardware version:	N/A
Software version:	N/A
Ratings:	Earphone： Input: 5.0V⎓ 90mA Battery: DC 3.85V 37mAh 0.143Wh Charging Case: Input: 5.0V⎓ 0.7A Battery: DC 3.7V 500mAh 1.85Wh

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2.5 Technical Information

Operation Frequency:	2402-2480MHz
Channel numbers:	40
Channel separation:	2MHz
Modulation technology:	GFSK
Max. Conducted Power:	BLE_L: 1.462mW BLE_R: 1.570mW
Antenna type:	BLE_L: FPC Antenna BLE_R: FPC Antenna
Antenna gain:	BLE_L: -1.54 dBi (declare by Applicant) BLE_R: -1.35 dBi (declare by Applicant)

Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	10	2422	20	2442	30	2462
1	2404	11	2424	21	2444	31	2464
2	2406	12	2426	22	2446	32	2466
3	2408	13	2428	23	2448	33	2468
4	2410	14	2430	24	2450	34	2470
5	2412	15	2432	25	2452	35	2472
6	2414	16	2434	26	2454	36	2474
7	2416	17	2436	27	2456	37	2476
8	2418	18	2438	28	2458	38	2478
9	2420	19	2440	29	2460	39	2480

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3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards:
Article 2-1, Item 19 : 2.4GHz for SRD/BT/WIFI
MIC Notice No.88 Appendix No.43：2.4GHz band advanced low-power data communication system

3.2 Uncertainty of Test

Measurement	Value
Radio Frequency	±1.2 *10^{-9}
Occupied Channel Bandwidth	±173.1Hz
RF output power, conducted	±0.66 dB
Unwanted Emissions, Conducted	±2.32dB
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Tolerance of Frequency	Article 2-1, Item 19	Article 5	Pass
Occupied Bandwidth (99%)	Article 2-1, Item 19	Article 6	Pass
Antenna Power and Tolerance	Article 2-1, Item 19	Article-49.20-&-Article-14.7	Pass
Spurious Emission Intensity	Article 2-1, Item 19	Article 7	Pass
Secondary Radiated Emissions	Article 2-1, Item 19	Article 24	Pass
Interference Prevention Function	Article 2-1, Item 19	Article 9.4	Pass
RF Accessibility	Article 2-1, Item 19	Article 49.20	Pass
Remark: *1. Pass: Meet the requirements.* *2. N/A: not applicable.*			

3.4 Additions to, deviations, or exclusions from the method

None

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4 Test Configuration

4.1 Test Equipment List

Tolerance of Frequency Occupied Bandwidth (99%) Antenna Power and Tolerance Spurious Emission Intensity Secondary Radiated Emissions							
Test Equipment	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due	Cal. By	Remark
Test Software	TST Pass	/	Version: 2.0	/	/	Guangzhou LiSai Metrology &Test Co.,Ltd.	3
Cell Site Test Set	HP	8921A	US35010158	2025-10-17	2026-10-16	Guangzhou LiSai Metrology &Test Co.,Ltd.	3
Spectrum Analyzer	Keysight	N9020A	MY50410020	2025-10-17	2026-10-16	Guangzhou LiSai Metrology &Test Co.,Ltd.	3
ESG Vector Signal Generator	Agilent	E4438C	MY45094854	2025-10-17	2026-10-16	Guangzhou LiSai Metrology &Test Co.,Ltd.	3
MXG Vector Signal Generator	Agilent	N5182A	MY46240163	2025-10-17	2026-10-16	Guangzhou LiSai Metrology &Test Co.,Ltd.	3
Wideband Radio Communication Tester	Rohde&Schwarz	CMW500	161997	2025-10-17	2026-10-16	Guangzhou LiSai Metrology &Test Co.,Ltd.	3
Programmable Constant Temperature And Humidity Test Chamber	ZZCKONG	ZZ-K02A	20210928007	2025-10-17	2026-10-16	Guangzhou LiSai Metrology &Test Co.,Ltd.	3
DC Power Supply	Tongmen	etm-6050c	20211026123	2025-10-17	2026-10-16	Guangzhou LiSai Metrology &Test Co.,Ltd.	3
RF Control Unit	Techy	TR1029-1	/	2025-10-17	2026-10-16	Guangzhou LiSai Metrology &Test Co.,Ltd.	3
RF Sensor Unit	Techy	TR1029-2	/	2025-10-17	2026-10-16	Guangzhou LiSai Metrology &Test Co.,Ltd.	3
RF shielding box	Yinuoxin Electronics	50*50*50 cm	/	2025-05-26	2026-05-25	Guangzhou LiSai Metrology &Test Co.,Ltd.	3

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Remark:

1. *Calibration conducted by the National Institute of Information and Communications Technology (NICT) in. japan (hereinafter referred to as *NICT*) or a designated calibration agency under Article 102-18 paragraph (1) in JRL.*
2. *Correction conducted pursuant to the provisions of Article 135 or Article 144 of the Measurement Act (Act. No.51 of 1992)*
3. *Calibration conducted in countries except Japan, which shall be equivalent to the calibration conducted by. the NICT or a designated calibration agency under Article 102-18 paragraph (1).*
4. *Calibration, etc. conducted by using measuning instruments and other equipment listed in the right column of appended table No. 3, which shall have been given any type of calibration, etc. listed above from (2) to (4).*
   From JRL Article 24-2, paragraph 4, Item 2

All calibration information is from Guangzhou LiSai Metrology &Test Co., Ltd.

4.2 Test Auxiliary Equipment

The EUT has been tested as an independent unit.

4.3 Environment Condition

ENV	Temperature (°C)	Voltage (V)
NTLV	25	3.47
NTNV	25	3.85
NTHV	25	4.24

Voltage fluctuation test:

The RF unit is supplied DC 3.7V The fluctuation of input voltage to the circuit of RF unit of test equipment is under ±1%, when input voltage DC 3.85V fluctuated ±10%, so all measurement has been conducted by only rated voltage.

DC Input	RF_IC Input	Rate of fluctuation(%)
4.24V	3.7V	0.0
3.47V	3.7V	0.0
3.85V	3.7V	0.0

4.4 Test Modes

No.	Test Modes
TM1	GFSK-LE 1Mbps-TX Mode
TM2	GFSK-LE 2Mbps-TX Mode
TM3	GFSK-LE 1Mbps-RX Mode
TM4	GFSK-LE 2Mbps-RX Mode

4.5 Test Channel of EUT

Operation Band: 1

Bandwidth	Lowest Channel (LCH)	Middle Channel (MCH)	Highest Channel (HCH)

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(MHz)	(MHz)	(MHz)	(MHz)
1	2402	2440	2480
2	2402	2440	2480

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5 Evaluation Results (Evaluation)

5.1 Interference Prevention Function

Test Requirement:	The EUT shall support one of the following functions: - Automatic identification transmission - Automatic identification reception
Test Method:	Notification No.88 of MIC, 2004
Procedure:	(1) For EUTs capable of automatically transmitting identification data a. Transmit identification data from EUT to Demodulator b. Confirm identification data is correctly received by Demodulator (2) For EUTs capable of automatically receiving identification data a. Transmit identification data from Link Partner to EUT b. Confirm communication link is established c. Link Partner shall respond by transmitting different identification data back to the EUT d. Confirm EUT stops transmitting, or confirm EUT recognizes that the two identification data are different
Operating Environment:	
Temperature:	25.1 °C
Humidity:	48.7 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 3.85V From Battery

5.1.1 Conclusion

The detected ID of the device is below:
41:42:43:00:09:2D

Test result: The device meet the requirements
PASS

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5.2 RF Accessibility

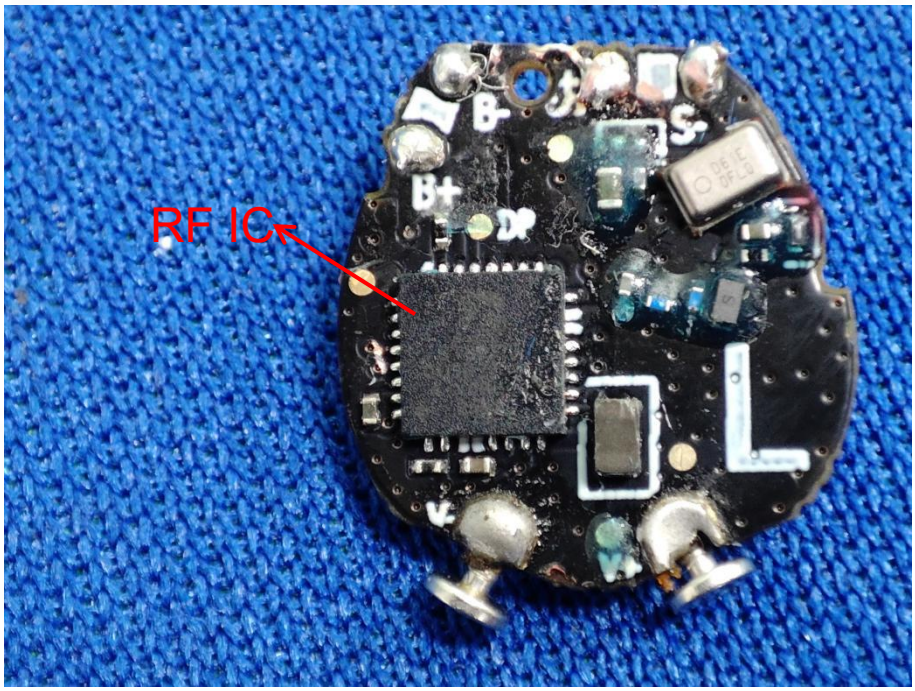
Test Requirement:	The EUT shall be constructed in such a way that sensitive RF parts, (like modulation and oscillator parts) cannot be reached easily by the user. These parts shall be covered by soldered metal caps or glue or by other mechanical covers. If the covers are fixed with screws, these shall be not the common type(s) like a Phillips, but special versions like Torx, so that the user cannot open the device with common tools.
Operating Environment:	
Temperature:	24.7 °C
Humidity:	52.2 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 3.85V From Battery

5.2.1 Conclusion

Tamper proof declaration:

□ We apply the product for Japan RF certification, The number of chip pins is 32. and the distance between the pins is less than 0.5mm and packaged type is QFP, so the chip is not easily damaged. See the structure below:

L:



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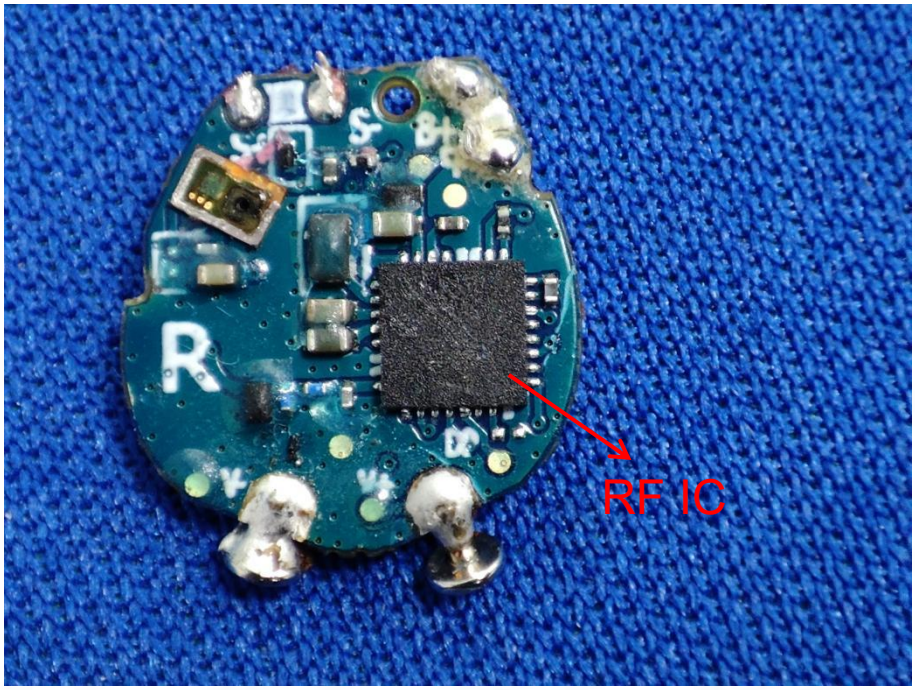
R:



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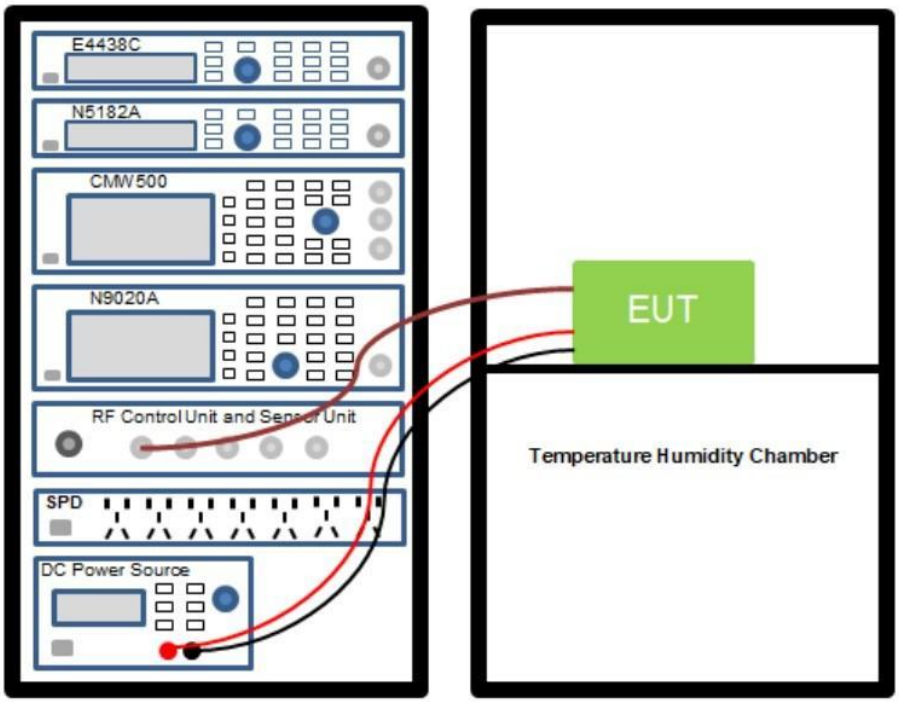
6 Radio Spectrum Matter Test Results (RF)

6.1 Tolerance of Frequency

Test Requirement:	Article 2-1, Item 19
Test Method:	Notification No.88 of MIC, 2004
Test Limit:	±50ppm or less.
Procedure:	Center frequency: Test frequency Span: 1M RBW: 10 kHz (Modulation ON) VBW: 10 kHz (Modulation ON) Sweep data points: 1001 or greater Sweep time: Continue Detector mode: peak Indication mode: Max hold If the EUT cannot transmit in un-modulated mode then modulated mode measurements can be made, as follows: If the spectrum observed using the spectrum analyzer has a characteristic dip at the center, then the center frequency of the dip shall be regarded as the center frequency of the carrier.
Test Setup:	
Operating Environment:	
Temperature:	25.2 °C
Humidity:	47.3 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 3.85V From Battery

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6.1.1 Test Data

Please Refer to Appendix-BLE for Details.

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6.2 Occupied Bandwidth (99%)

Test Requirement:	Article 2-1, Item 19
Test Method:	Notification No.88 of MIC, 2004
Test Limit:	For DSSS or other modulation: The measured bandwidth at the low and high channels shall meet the following requirements: - The lowest frequency of the measured bandwidth shall not be less than 2400 MHz - The highest frequency of the measured bandwidth shall not be greater than 2483.5 MHz [Occupied Bandwidth] 26 MHz or less
Procedure:	

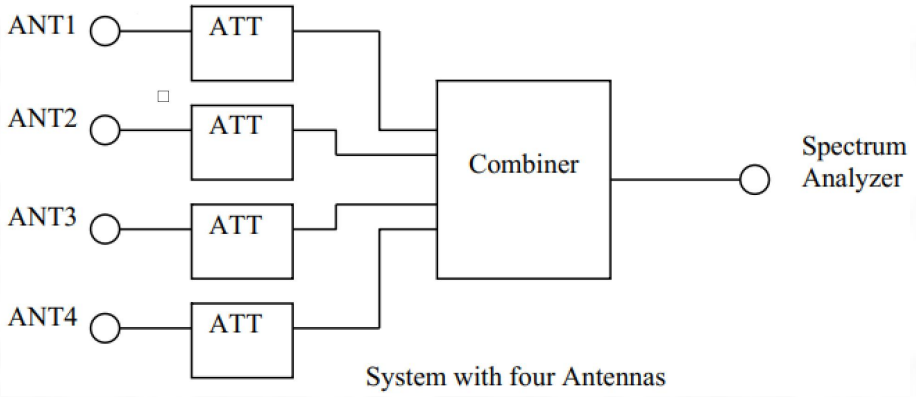
Center Frequency:	Test frequency
Span:	2 - 3.5 times the technical standard
RBW:	Within 3% of the technical standard
VBW:	Same as RBW
Sweep time:	Auto
Sweep data points:	1001 or greater
Detector mode:	Positive peak
Indication mode:	Max hold
BW setting:	99%

(1) Measure the signal bandwidth using a spectrum analyzer

(2) For multiple antenna systems:

a) Each antenna shall be individually measured

b) If the measured occupied bandwidth for any antenna exceeds [(Occupied Bandwidth Limit) – 100kHz] then, in addition, the occupied bandwidth shall be measured with all antennas combined – see diagram below:



System with four Antennas

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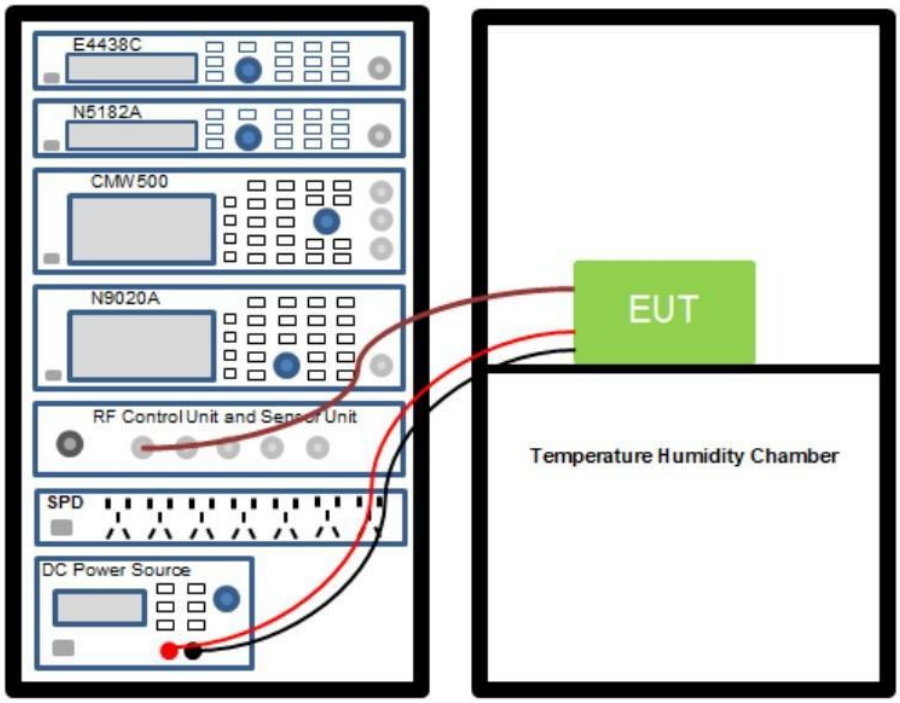
Test Setup:	
Operating Environment:	
Temperature:	23 °C
Humidity:	49.6 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 3.85V From Battery

6.2.1 Test Data

Please Refer to Appendix-BLE for Details.

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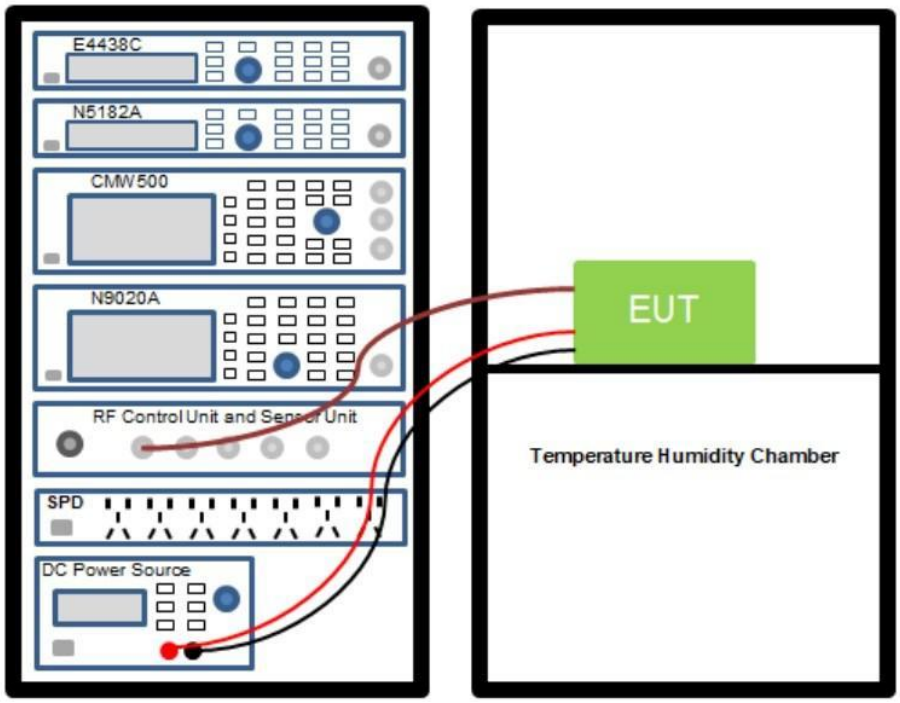
6.3 Antenna Power and Tolerance

Test Requirement:	Article 2-1, Item 19
Test Method:	Notification No.88 of MIC, 2004
Test Limit:	Antenna Power: 10 mW or less Tolerance: +20% or less EIRP: 12.14dBm
Procedure:	1. Measure the power with the power meter. 2.Record the reading on the power meter as antenna output power.
Test Setup:	
Operating Environment:	
Temperature:	23.6 °C
Humidity:	49.2 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 3.85V From Battery

6.3.1 Test Data

Please Refer to Appendix-BLE for Details.

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Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
Email: info@btf-lab.com Tel: +86-0755-23146130 http://www.btf-lab.com Version: 1/00

6.4 Spurious Emission Intensity

Test Requirement:	Article 2-1, Item 19
Test Method:	Notification No.88 of MIC, 2004
Test Limit:	(1) Below 2387 MHz: 2.5 μW (-26 dBm)/MHz or less (2) 2387 to 2400 MHz: 25.0 μW (-16 dBm)/MHz or less (3) 2483.5 to 2496.5 MHz: 25.0 μW (-16 dBm)/MHz or less (4) Over 2496.5 MHz: 2.5 μW (-26 dBm)/MHz or less
Procedure:	

[Setting 1]	
Frequency range:	(see Note 1)
RBW:	1 MHz
VBW:	1 MHz
Sweep time:	Minimum time required to make an accurate measurement
Sweep Data Points:	1001 or greater
Detector mode:	Positive peak
Indication mode:	Max hold (see Note 2)
Note 1:	Measurement range shall be 30 MHz to 12.5 GHz, except for the following cases: -FHSS, FHSS+DSSS, FHSS+OFDM:2374 MHz to 2509.5 MHz -Other than FHSS, FHSS+DSSS, FHSS+OFDM: 2400 MHz to 2483.5 MHz
Note 2:	Sweep shall be repeated until the max hold waveform is stable.
[Setting 2]	
Center frequency:	Frequency of spurious emission found using [Setting 1]
Span:	0 Hz
RBW:	1 MHz
VBW:	1 MHz
Sweep time:	Minimum time required to make an accurate measurement. For burst type (intermittent) spurious emissions, sweep time shall be greater than one burst interval
Sweep Data Points:	1001 or greater
Detector mode:	Sample
[Setting 3]	
Frequency range:	2374 MHz to 2400 MHz 2483.5 MHz to 2509.5 MHz
RBW:	30 kHz
VBW:	30 kHz

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Sweep time:	Minimum time required to make an accurate measurement.
Sweep data points:	1001 or greater
Detector mode:	Positive peak
Indication mode:	Max hold

(1) After configuring the spectrum analyzer to [Setting 1], search for spurious emissions from 30 MHz to 12.5 GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points]. If spurious emissions greater than [Limit - 3dB] are found, then more detailed measurements are required, go to step (2)
(2) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude.
If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time.
If spurious emissions ranging from 30 MHz to 2374 MHz and from 2509.5MHz to 12.5GHz are over the limit, then the test result is Fail.
If spurious emissions ranging from 2374 MHz to 2400 MHz and from 2483.5 MHz to 2509.5 MHz are over the limit, then further detailed measurements are required, go to step (3)
(3) In the following cases, measure the spurious emissions using [Setting 3]
- Case1: FHSS, FHSS+DSSS, FHSS+OFDM
- Case2: Other than FHSS, FHSS+DSSS, FHSS+OFDM, and the spurious emissions in step (2) are over the limit
(4) Calculate the spurious emission value (Calculated Value) using following the formula below:
Calculated Value = (Measured Value using (3) + 15.2dB)
Note: 15.2dB adjustment is derived from the Conversion Factor of RBW
Conversion Factor of RBW = 10 x Log (Reference Bandwidth / RBW of measurement) = 15.2 [dB] Where: Reference Bandwidth = 1 MHz
RBW of measurement = 30 kHz
(5) If the calculated value using (4) is over the Limit (section 6.7), go to (6)
(6) Configure the spectrum analyzer to [Setting 3] then make the following changes:
Frequency: Frequency of spurious emission
Span: 1 MHz
(7) After sweep, send the span data set to the PC
(8) Convert measured data from dBm to Watts
(9) Sum all the data using the formula below. If the sum is within the limit, the test result is Pass, otherwise, Fail

$$P_s = (\sum_{i=1}^{n} E_i) \times \frac{S_w}{RBW \times k \times n}$$

Ps: Sum (Watts)
Ei: Measured value at each point in the Span (Watts) Sw: Span (1MHz)
n: Number of measurement points in the Span
k: Correction factor for Equivalent Noise Bandwidth, specific to each spectrum analyzer, check the instrument user guide
RBW: Resolution Bandwidth (MHz).
(10) If the EUT has multiple antennas, measure the spurious emission form each

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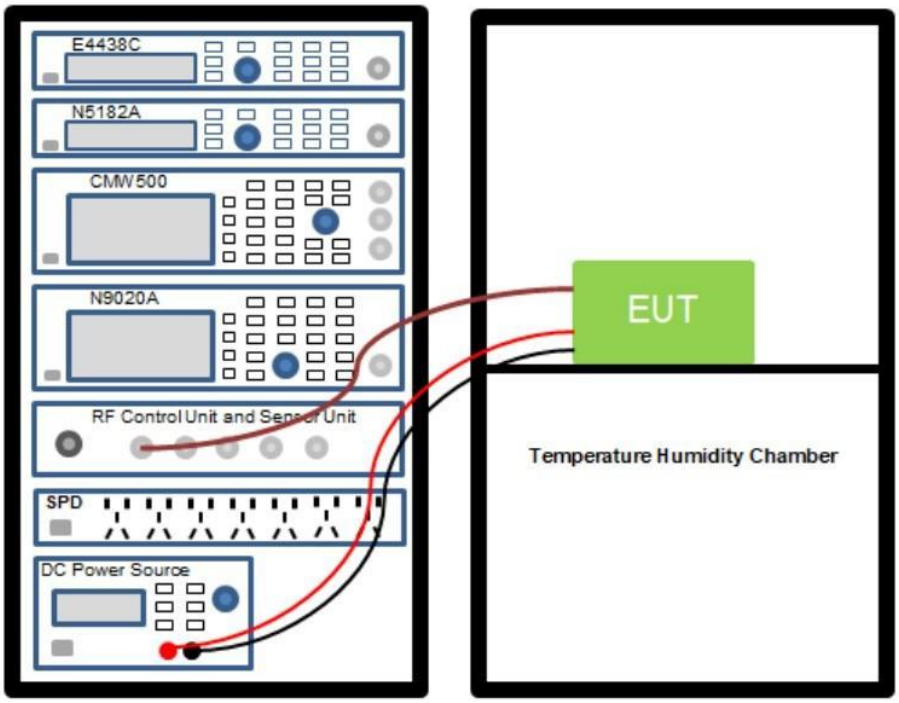
	individual antenna using steps (1) through (9) (11) Convert the individual antenna spurious level measurements (step (10)) from dB to absolute values (12) Combine (sum) the absolute values of the spurious measurements at each frequency for each antenna (to create a single composite spectrum of spurious emissions) (13) Ensure that the composite spectrum does not exceed the Limit defined in 6.7 (Technical Standard) (14) Configuring the spectrum analyzer using [Setting 3] and measure the spurious emissions with all the antennas electrically combined
Test Setup:	
Operating Environment:	
Temperature:	25 °C
Humidity:	50.5 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 3.85V From Battery

6.4.1 Test Data

Please Refer to Appendix-BLE for Details.

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6.5 Secondary Radiated Emissions

Test Requirement:	Article 2-1, Item 19
Test Method:	Notification No.88 of MIC, 2004
Test Limit:	(1) Below 1 GHz: 4 nW (-54dBm) or less (2) Above 1 GHz: 20 nW (-47dBm) or less
Procedure:	

[Setting 1]	
Frequency range:	30 MHz ~ 12.5 GHz
RBW:	Below 1 GHz:100 kHz
	Above 1 GHz:1 MHz
VBW:	Below 1 GHz:100 kHz
	Above 1 GHz:1 MHz
Sweep time:	Auto
Sweep data points:	1001 or greater
Detector mode:	Positive peak
Indication mode:	Max hold
[Setting 2]	
Center Frequency:	Frequency of spurious emission found using [Setting 1]
Span:	0 Hz
RBW:	Below 1 GHz:100 kHz
	Above 1 GHz:1 MHz
VBW:	Below 1 GHz:100 kHz
	Above 1 GHz:1 MHz
Sweep time:	Auto
Sweep data points:	1001 or greater
Detector mode:	Sample

(1) Configure the spectrum analyzer to [Setting 1] and then search for spurious emissions in the range 30 MHz to 12.5GHz. If the sweep range does not cover the required measurement frequency range then the measurement range will need to be divided into sufficient sections of size [RBW x Sweep Data Points].
(2) If spurious emissions are found with an amplitude greater than [Limit - 10dB] then perform further detailed measurements as described in (3)
(3) Configure the spectrum analyzer using [Setting 2] and measure the average signal amplitude.
If the spurious emission is burst type (intermittent), then the average value shall not include signal OFF time Multiple Antenna Systems
If the EUT has multiple antennas then emissions from each antenna shall be measured individually, as described below
(4) For each antenna repeat steps (1) through (3). Convert all spurious level measurements from dB to absolute value
(5) Combine (sum) the absolute values of the spurious measurements at each frequency for each antenna (to create a single composite spectrum of spurious emissions)
(6) Ensure that the composite spectrum does not exceed the Limit

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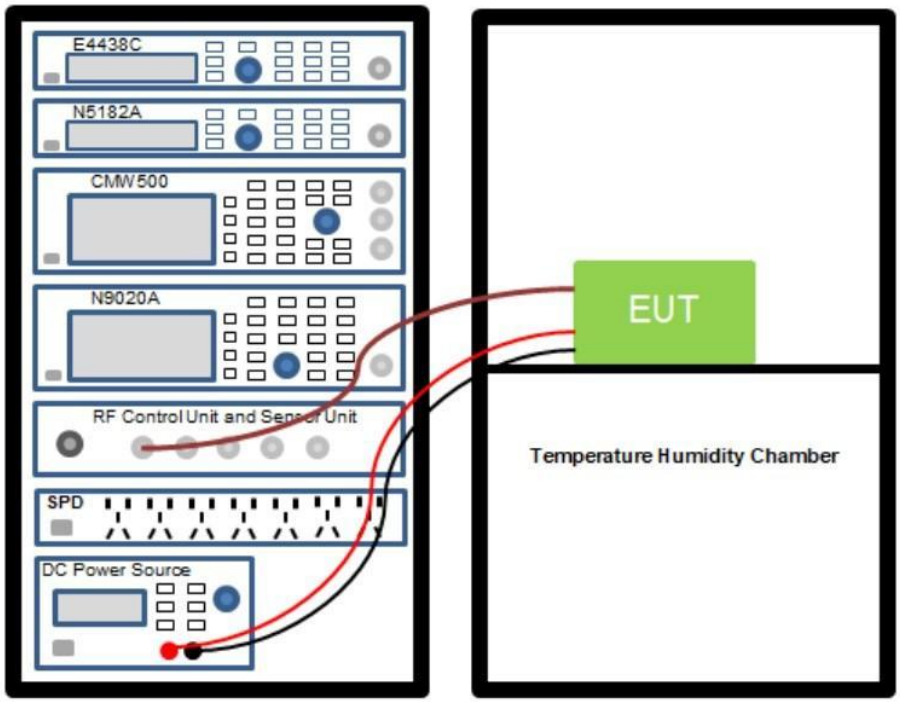
Test Setup:	
Operating Environment:	
Temperature:	22.6 °C
Humidity:	54.3 %
Atmospheric Pressure:	1010 mbar
Test voltage:	DC 3.85V From Battery

6.5.1 Test Data

Please Refer to Appendix-BLE for Details.

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7 Test Setup Photos

Refer to Appendix I Test Setup Photos

8 EUT Constructional Details (EUT Photos)

Refer to Appendix II External Photos & Appendix III Internal Photos

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Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China

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-- END OF REPORT --

BTF Testing Lab (Shenzhen) Co., Ltd.
Plant 101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, Guangdong, China
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